



## PROTECTIVE IMPLEMENT

### BACKGROUND OF THE INVENTION

5 The present invention relates to a protective implement, especially the protective implement which is carried without touching the eyes of the general public, and which can be used on user's toes in an instant in an emergency.

The conventional protective implement, especially the nightstick is formed in the shape of a stick made of the metallic, wooden, and resin with the fixed length or flexible length, and this is mainly built supposing use for the policemen, guards, etc.

Since the conventional nightstick is built for guard duties, there is a problem in appearance, weight, and the maintenance system for carrying for self-defense in the general public. In appearance, the nightstick in fixed length cannot bring every day, and the flexible nightstick also has about 20 to 30 cm in the full length at the time of expansion resistance and it is difficult to bring it every day. Also the weight is 500 g or more, and its weight is too heavy and cannot carry without being conscious. In the way of carrying, it cannot but carry into the exclusive holder equipped with a belt, or it cannot but put into a bag. When the holder is easy to be watched by other people in the public and, the shape of dignity of the holder is not good since ordinary persons spend the usual social life. Since it does not do when danger has been perceived, hiding the holder in the bag, having it and walking does not have the meaning that it has. In use, since it is a metal stick, when a partner's head is hit, you may make it die and result. If it is said conversely, it is not the self-defense purpose, and this is very dangerous when it is used as a

weapon.

Furthermore, although there is an idea that uses a belt etc. as the main part of a protective implement, if a belt is extracted also in an emergency, there may be a fear of trousers slipping down.

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## SUMMARY OF THE INVENTION

Accordingly, it is an object of the present invention to provide a protective implement that can always carry without weight, needing special consideration to appearance or the carrying method and the public notice for self-defense of ordinary persons. Also it is another object of the present invention to provide a protective implement that can attain the self-defense purpose in an instant in an emergency.

The novel features which are believed to be characteristic of the invention, both as to its organization and method of operation, together with further objects and advantages thereof, 15 are described below with reference to the accompanying drawings in which a presently preferred embodiment of the invention is illustrated as an example.

It is to be expressly understood, however, that the drawings are for the purpose of illustration and description only, and are not intended as a definition of the limits of the invention.

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## BRIEF DESCRIPTION OF THE DRAWINGS

- FIG. 1 is an explanation view showing a first embodiment of the present invention;
- FIG. 2 is an exploded view showing a first embodiment of the present invention;
- FIG. 3 is a front view of a grip part of protective tool showing a first embodiment of the present invention;
- 5 FIG. 4 is a side view of a grip part of protective tool showing a first embodiment of the present invention;
- FIG. 5 is a bottom view of a grip part of protective tool showing a first embodiment of the present invention;
- FIG. 6 is a cross sectional view taken along a line 6 - 6 of FIG. 2;
- FIG. 7 is a cross sectional view taken along a line 7 - 7 of FIG. 2;
- FIG. 8 is an explanation view showing the way in which a protective implement is installed;
- FIG. 9 is an explanation view showing the way in which the user hooks with a ring;
- FIG. 10 is an explanation view showing the way in which a protective tool is pulled;
- FIG. 11 is an explanation view showing a second embodiment of the present invention;
- 15 FIG. 12 is an explanation view of a grip part of protective tool showing a second embodiment of the present invention;
- FIG. 13 is an explanation view showing a third embodiment of the present invention;
- FIG. 14 is a cross sectional view taken along a line 14 - 14 of FIG. 13;
- FIG. 15 is an explanation view showing a fourth embodiment of the present invention;
- 20 FIG. 16 is an explanation view when in use;
- FIG. 17 is an explanation view showing a fifth embodiment of the present invention;
- FIG. 18 is an explanation view when in use;

FIG. 19 is an explanation view when in use in a sixth embodiment of the present invention;  
and

FIG. 20 is a cross sectional view taken along a line 20 - 20 of FIG. 19.

## 5 DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Preferred embodiments of the present invention are described in more detail below referring to the accompanying drawings.

Figs. 1 to 11 illustrate a protective implement of a first embodiment of the present invention. The numeral 1 shows a protective implement, a belt as the protective implement in this embodiment, and as illustrated in FIG. 1 and FIG. 2, the belt 1 as the protective implement includes a receipt object 2 for a protective tool formed in the shape of a belt and the protective tool 3 formed with the steel wire with stiff carried into the receipt object 2 so as to wrap around.

15 As illustrated in FIG. 2, the receipt object 2 further includes a receipt object body 4 formed in the shape of a sheath and a drawing-out parts 5 formed in the shape of a slit, formed in the back part of the receipt object body 4 at the time of wearing, carrying the protective tool 3 thereinto and reducing the frictional resistance at the time of drawing out.

The receipt object body 4 in the shape of the sheath has a space thereinto in a hollow 20 state to the length direction that balanced the full length of the protective tool 3. It is formed 3 to 5 mm in thickness, preferably in 4mm and formed 8 to 12 mm in the width direction, preferably 10 mm. Moreover, a reinforcement plate 6 is laid under the internal part of the

receipt object body 4 so that the protective tool 3 may draw out and leather of the outside of the belt may not be damaged at the time of drawing or the time of receipt. Also the reinforcement plate 6 for model collapse prevention of the belt is laid under the part that similarly touches a tip portion of the protective tool and the part at the middle of the belt.

- 5        The tip part of the drawing-out part 5 has applied and sutured a patch 7 in order to prevent a crack for reinforcement. Another end of the drawing-out part 5 is formed a storing part 8 formed in the shape of a square, a round shape etc. which cut off leather in square form in this embodiment so that the end of the protective tool 3 may tend to be settled.

As illustrated in FIG. 2, the protective tool 3 further includes a nightstick body 9 formed with the steel wire with stiff and a grip part 10 attached rotatably in the end of the nightstick body 9 so that it might be contained by the drawing-out part 5 of the receipt object 2 in the optimal state at the time of receipt and drawing out could be comfortably done at the time of drawing out. The steel wire as the nightstick body 9 is given with stiff by using MULTIPLE WIRE TYPE CONSTRUCTION 7 X 7 with a diameter of several mm. This has the hardness and suppleness that suited on the fiber structure of a wire. Moreover, although a difference makes it according to a practical use form, there is about 60 cm as standard in full length. Moreover, the tip part of the nightstick body 9 is fixed with plasma melting processing, solder, etc. so that it can hold together.

- 15      In addition, in this embodiment, the tip part of the nightstick body 9 is put the cap thereon and fixed so that it can hold together.

The grip part 10 further includes a grip part body 11 attached rotatably in the end of the nightstick body 9 and a ring 12 for drawing out the nightstick body 9 attached rotatably in the

end of the grip part body 11. Since the ring 12 is stored inside the receipt object 2 in receipt, nobody can see it and it is not visible from outside.

As illustrated in FIG. 1 in receipt, the protective tool 3 is contained by the receipt object 2 and is let pass and used for trousers as usual.

5 As illustrated in FIG. 8 to FIG. 10, when in use, by locating a ring 12 into the receipt object 2 and hanging a finger on the ring 12 and drawing out to a forward direction or downward direction, the nightstick body 9 is pulled out besides the receipt object 2, dividing the drawing-out part 5 simultaneously with starting a drawing-out operation, as illustrated in FIG. 7. That is, the protective tool 3 can be drawn out smoothly without damaging the receipt object 2 because the mighty frictional resistance by drawing out produced between the nightstick body 9 and the receipt object 2 is changed into the energy which divides a contact surface with the drawing-out part 5.

Other embodiments of the present invention will now be described referring to Figs. 11 to 20. Through the drawings of the embodiments, like components are denoted by like numerals as 15 of the first embodiment and will not be further explained in great detail.

A second embodiment of the present invention is shown in Figs. 11 and 12. It is distinguished from the first embodiment by the fact that the grip part 10 is put on the end of the nightstick body 9 and fixed. A protective implement 1A with the protective tool 3A according to the second embodiment has similar advantages to that according to the first 20 embodiment.

A third embodiment of the present invention is shown in Figs. 13 and 14. It is distinguished from the first embodiment by the fact that an implement receipt object body 4A without the

drawing-out part 5 is used. A protective implement 1B with a receipt object 2A can contain the protective tool 3 therein without spoiling a design.

A fourth embodiment of the present invention is shown in Figs. 15 and 16. It is distinguished from the first embodiment by the fact that a receipt object body 4B formed in  
5 the shape of a strap, which is used for a shoulder bag, briefcase 13 or the like, is used. A protective implement 1C with a receipt object 2A according to the fourth embodiment has similar advantages to that according to the first embodiment.

A fifth embodiment of the present invention is shown in Figs. 17 and 18. It is distinguished from the third embodiment by the fact that a receipt object body 4C sewn on the side part inside the trousers fabricated by cloth thick including jeans cloth and leather, a jean 14 in this embodiment is used. A protective implement 1D with a receipt object 2C according to the fifth embodiment has similar advantages to that according to the third embodiment.

In addition, the receipt object body 4C of the protective implement 1D may be formed in the side part of the jeans 14 integrally.

15 A sixth embodiment of the present invention is shown in Figs. 19 and 20. It is distinguished from the third embodiment by the fact that a receipt object body 4D prepared in the skirt slippage part of the coat fabricated by cloth thick including jeans cloth and leather, a jacket 15 of the jeans cloth in this embodiment integrally is used. A protective implement 1E with the receipt object 2D according to the sixth embodiment has similar advantages to that according  
20 to the third embodiment

In addition, the receipt object body 4D of the protective implement 1E may be sewn on the skirt slippage part of the jacket 15 as another object and may be used.

Furthermore, although each embodiment differs mainly explained based on the first embodiment, even if it uses the present invention combining the composition used for the form of not only this but each embodiment, the same action effect is acquired.

As set forth above, the advantages of the invention are as follows:

- 5       (1) A protective implement comprises a protective tool; and a receipt object formed so that the protective tool may be contained, having a drawing-out part which can reduce the frictional resistance at the time of drawing out so that it can always carry without being afraid of the public notice and special consideration to weight and the carrying method, and a self-defense system can be taken in an emergency in an instant.
- 10      (2) As discussed above, when in use, while it has a sufficient power for repulsing a rowdy, when a partner is immature youth, it can carry out consideration that there is no fear of giving a mortal wound and it dies more than achievement to defend self.
- 15      (3) As discussed above, it can be used by the same fine sight as usual without spoiling a design.
- 15      (4) As discussed above, since the structure is simple, it can carry out easily.

Therefore, it can manufacture cheaply.